CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.17/D&C/WMM/Gradation/2014-15

21.04.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Damodar & Co.,** Contractor, Bangalore.

Name of Work : Providing and laying HDPE Water line in VR Layout in JP Park, Ward No. 17, BBMP, Bangalore.

Reference : EE/RRND/Wo. No./227/2013-14 Dated: 06.02.2014

Date of Testing : 21.04.2014

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7565**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	285	285	3.8	96.2	95-100
22.4	2505	2790	36.9	63.1	60-80
11.2	1215	4005	52.9	47.1	40-60
4.75	930	4935	65.2	34.8	25-40
2.36	875	5810	76.8	23.2	15-30
0.600	795	6605	87.3	12.7	8-22
0.075	580	7185	95.0	5.0	0-8

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Date of Testing : 21.04.2014

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): 7835

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	195	195	2.5	97.5	95-100
22.4	2655	2850	36.4	63.6	60-80
11.2	1365	4215	53.8	46.2	40-60
4.75	1030	5245	66.9	33.1	25-40
2.36	920	6165	78.7	21.3	15-30
0.600	775	6940	88.6	11.4	8-22
0.075	625	7565	96.6	3.4	0-8

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Date of Testing : 21.04.2014

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): 8450

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	345	345	4.1	95.9	95-100
22.4	2660	3005	35.6	64.4	60-80
11.2	1420	4425	52.4	47.6	40-60
4.75	1175	5600	66.3	33.7	25-40
2.36	980	6580	77.9	22.1	15-30
0.600	790	7370	87.2	12.8	8-22
0.075	645	8015	94.9	5.1	0-8

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Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): 7545

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	230	230	3.0	97.0	95-100
22.4	2265	2495	33.1	66.9	60-80
11.2	1255	3750	49.7	50.3	40-60
4.75	1095	4845	64.2	35.8	25-40
2.36	880	5725	75.9	24.1	15-30
0.600	825	6550	86.8	13.2	8-22
0.075	650	7200	95.4	4.6	0-8

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Date of Testing : 21.04.2014

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **7510**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	315	315	4.2	95.8	95-100
22.4	2360	2675	35.6	64.4	60-80
11.2	1325	4000	53.3	46.7	40-60
4.75	1130	5130	68.3	31.7	25-40
2.36	890	6020	80.2	19.8	15-30
0.600	685	6705	89.3	10.7	8-22
0.075	535	7240	96.4	3.6	0-8

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